

ABSTRACT OF THE DISCLOSURE

A power supply is provided, by which power consumption of an electrical apparatus having a normal mode and a standby mode is reduced by including a dedicated power converter for the standby mode, to increase operational efficiency by means of feeding back an output voltage in standby mode to supply a constant voltage. The power supply includes a DC power unit for outputting a DC voltage; a microcomputer for outputting a mode control signal according to the operational mode of the electrical apparatus; a first power converter, controlled by the mode control signal, for converting the DC voltage output of the DC power unit into at least one operation voltage required for powering a plurality of loads; and a second power converter for supplying the microcomputer with a regulated feedback voltage in the standby mode of the electrical apparatus; and a switch for controlling an application of the DC voltage output of the DC power unit to the microcomputer through the second power converter, according to the mode of the electrical apparatus.